



COMMONWEALTH of VIRGINIA

DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY
A Nationally Accredited Laboratory

700 NORTH 5TH STREET
RICHMOND, VIRGINIA 23219
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 010444
CERTIFICATION DATE: January 10, 2014
DATE RECERTIFICATION DUE: July 9, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science as required by §9.1-1101 (B)(3). Measurement traceability is established through the use of reference materials supplied by an ISO/IEC 17025:2005 accredited calibration laboratory.

Estimation of Uncertainty of Measurement:

0.020 ± 0.004 g/210 L 0.150 ± 0.007 g/210 L
0.080 ± 0.004 g/210 L 0.250 ± 0.007 g/210 L

The Uncertainty of Measurement is reported at the 99.73% level of confidence and a coverage factor of k=3. The estimation of the Uncertainty of Measurement is calculated for the Certification process only.

Michelle M. Billeter
Forensic Scientist

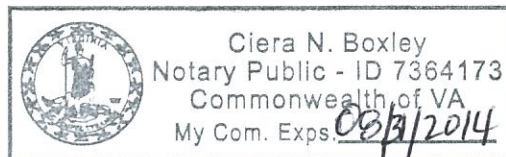
CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 24th day of
January, 2014 by Michelle M. Billeter

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014

msk



MMB

**Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
1/1/1990 To 1/13/2014**

Instrument Serial Number: 010444 **As of 13-Jan-14**

Maintenance	Certification	Technician	
Date	Date	Initials	Remarks
10-Jan-14	10-Jan-14	MMB (26417)	CALIBRATED AND CERTIFIED.
09-Jan-14	09-Jan-14	MMB (26417)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED.
19-Nov-13	19-Nov-13	TLN (25387)	CALIBRATED AND CERTIFIED.
27-Aug-13	27-Aug-13	TLN (25387)	CERTIFIED.
05-Jul-13	05-Jul-13	SED (24178)	CERTIFIED.
10-Apr-13	10-Apr-13	DBH (21250)	CALIBRATED AND CERTIFIED.
21-Nov-12	21-Nov-12	MSK (21355)	CERTIFIED.
17-Oct-12	17-Oct-12	TLN (25387)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD.
11-Oct-12	11-Oct-12	DBH (21250)	CERTIFIED.
09-Oct-12	09-Oct-12	DBH (21250)	CERTIFIED.
20-Jun-12	20-Jun-12	HMS (18910)	CALIBRATED, CERTIFIED AND ACCEPTED.
29-Oct-08	29-Oct-08	HMS (18910)	CERTIFIED.
13-Oct-08	13-Oct-08	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

INTOX EC/IR II

Quality Assurance Worksheet

Instrument Serial Number **010444** Worksheet Start Date **1/10/2014**

Location **DFS**

Address

DFS Technician **Michelle Billeter** License No. **26417**

☒ Laboratory ☐ On-Site

Site Specification: No detrimental environmental conditions exist. ☐

Instrument Barometer (mm HG) **766** Reference Barometer (mm HG) **769**

Reference Barometer(RB)Serial # **009110** RB Calibration Due **5/30/2014**

Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.306
0.300	0.303	0.293	0.312	Sample 2	0.306
Precision		sample min	sample max	Sample 3	0.305
0.001		0.305	0.306		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.103
0.100	0.101	0.097	0.104	Sample 2	0.103
Precision		sample min	sample max	Sample 3	0.103
0		0.103	0.103		

Dry gas standard Lot No. (with tank no.) **AG219101-12**

☐ Replaced dry gas standard (+O-ring)

☐ Installed at Location

☐ Removed to DFS-Central

Supplies

Mouthpieces

Certificates of Analysis

Operator Worksheet

Other:

Notes:

Received Two Out of Tolerance Messages. on test solutions so instrument was recalibrated. mmB 012114

Instrument Serial Number

010444

Certification Date

1/10/2014

☒ Calibrated☒ Certified☒ Measurement Assurance Check☒ Instrument Test☐ Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.252
0.250	0.252	0.244	0.259	Sample 2	0.252
Precision		sample min	sample max	Sample 3	0.251
0.0007		0.251	0.252		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.151
0.150	0.151	0.146	0.155	Sample 2	0.151
Precision		sample min	sample max	Sample 3	0.151
0		0.151	0.151		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.080
0.080	0.081	0.078	0.084	Sample 2	0.080
Precision		sample min	sample max	Sample 3	0.080
0		0.080	0.080		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.019
0.020	0.020	0.017	0.023	Sample 2	0.019
Precision		sample min	sample max	Sample 3	0.019
0		0.019	0.019		

All measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

DFS Technician

Michelle Bellet

Date

1/13/14

Issuing Analyst

Michelle Bellet

Date

*1/21/14**MSK*

Intox EC/IR-II: Calibration*Department of Forensic Science*

Serial Number: 010444 Test Number: 597

Test Date: 01/10/2014 Test Time: 08:01 EST

Dry Gas Target: 0.101

Lot Number: 0651210013-07 Exp Date: 04/01/2014

Tank Pressure: 1007 psi Barometric Pressure: 766 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	08:02
CAL	0.101	08:02

Test Status: Success

Calibration CRC: 6156E681

mmB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010444 Test Number: 598

Test Date: 01/10/2014 Test Time: 08:12 EST

Technician Initials: MMB

Dry Gas Target: 0.252

Lot Number: 2961225012-8 Exp Date: 11/01/2014

Tank Pressure: 75 psi Barometric Pressure: 766 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	08:12
BLK	0.000	08:13
CHK	0.252	08:14
BLK	0.000	08:15
CHK	0.252	08:16
BLK	0.000	08:18
CHK	0.251	08:19
BLK	0.000	08:20

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

Intox EC/IR-II: Certification*Department of Forensic Science*

Serial Number: 010444 Test Number: 599
Test Date: 01/10/2014 Test Time: 08:25 EST

Technician Initials: *MMB*Dry Gas Target: *0.151*Lot Number: *2951215012-02* Exp Date: *11/01/2014*Tank Pressure: *306 psi* Barometric Pressure: *767 mmHg*System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	08:35
BLK	0.000	08:36
CHK	0.151	08:36
BLK	0.000	08:38
CHK	0.151	08:39
BLK	0.000	08:41
CHK	0.151	08:42
BLK	0.000	08:43

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

MMB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010444 Test Number: 600
Test Date: 01/10/2014 Test Time: 08:46 EST

Technician Initials: MMB

Dry Gas Target: 0.081

Lot Number: 0771308012-04 Exp Date: 05/01/2015

Tank Pressure: 448 psi Barometric Pressure: 767 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	08:46
BLK	0.000	08:47
CHK	0.080	08:48
BLK	0.000	08:49
CHK	0.080	08:50
BLK	0.000	08:52
CHK	0.080	08:52
BLK	0.000	08:54

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

Intox EC/IR-II: Certification*Department of Forensic Science*

Serial Number: 010444 Test Number: 601
Test Date: 01/10/2014 Test Time: 09:02 EST

Technician Initials: *MMB*Dry Gas Target: *0.020*Lot Number: *0771302011-04* Exp Date: *05/01/2015*Tank Pressure: *522 psi* Barometric Pressure: *767 mmHg*System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	09:02
BLK	0.000	09:03
CHK	0.019	09:04
ELK	0.000	09:05
CHK	0.019	09:06
BLK	0.000	09:07
CHK	0.019	09:08
BLK	0.000	09:09

Success

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010444 Test Number: 602

Test Date: 01/10/2014 Test Time: 09:13 EST

Dry Gas Target: 0.303

Lot Number: AG322702-05 Exp Date: 08/15/2015

Tank Pressure: 497 psi Barometric Pressure: 767 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	09:14
CHK	0.306	09:14
BLK	0.000	09:16
CHK	0.306	09:17
BLK	0.000	09:19
CHK	0.305	09:20

Test Status: *Success*

Calibration CRC: 6156E681

Intox EC/IR-II: Accuracy Check*Department of Forensic Science*

Serial Number: 010444 Test Number: 603

Test Date: 01/10/2014 Test Time: 09:24 EST

Dry Gas Target: 0.101

Lot Number: AG219101-12 Exp Date: 07/09/2014

Tank Pressure: 80 psi Barometric Pressure: 766 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	09:25
CHK	0.103	09:25
BLK	0.000	09:27
CHK	0.103	09:28
BLK	0.000	09:29
CHK	0.103	09:30

Test Status: Success

Calibration CRC: 6156E681

mmb

INSTRUMENT, TEST,

DFS

BILLETER, MICHELLE, M

DFS Central Lab

26417

10/01/2014

01/10/2014

010444

01/10/2014

09:40 EST

0.00



IntoxNet MIS Report

Report Generated 10 Jan 2014 at 09:51

mmb

Test Results

Instrument Serial Number 010444

Test # 000604 Subject Test

Test Location 1 Department of
Test Date 10 Jan 2014

Test Location 2 Forensic Science
Test Time 09:33
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name BILLETER
Agency DFS Central Lab

Operator's First Name MICHELLE

Operator's Middle Initial N
License Number 26417

Card Serial Number 126417

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 10 Jan 2014 End Time 09:41

Result Time 09:40

Result Date 10 Jan 2014

Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 09:34

Data Type BLK

Sample Value 0.000

Sample Time 09:34

Data Type CHK

Sample Value 0.102

Sample Time 09:35

Data Type BLK

Sample Value 0.000

Sample Time 09:37

Data Type SUBJ

Sample Value 0.000

Sample Time 09:38

Data Type BLK

Sample Value 0.000

Sample Time 09:38

Data Type SUBJ

Sample Value 0.000

Sample Time 09:40

Data Type BLK

Sample Value 0.000

Sample Time 09:41

Standard Type Dry Gas Std

Standard Value 0.101

Standard Lot Number AG219101-12

Standard Expiration Date 07/09/2014

Tank Pressure 71

Barometric Pressure 767 mmHg

Blow Sample Number 1 Blow Duration 3.85 sec

Blow Volume 1811 cc End-of-Blow Time 09:38

Blow Sample Number 2 Blow Duration 3.98 sec

Blow Volume 1788 cc End-of-Blow Time 09:40

Tamper Evident Stamp aba4df57

Test Status Code 0

Test Status Success